



THE UNIVERSITY OF KANSAS SPACE TECHNOLOGY LABORATORIES

2291 Irving Hill Dr. — Campus West Lawrence, Kansas 66044

Telephone: (913) 864-4836

E7.4-10435

CR-137382

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

March 8, 1974

Mr. Timothy T. White, Code TD4
National Aeronautics and Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058

RE: Monthly Progress Report for January 1974,
Contract NAS9-13331.

Dear Mr. White:

The University of Kansas Center for Research, Inc. reports the following
work performed during the period 1 January 1974 to 31 January 1974.

1.0 CONTINUING STUDIES

1.1 (Task 2.1.1.2, 2.1.3.1, 2.1.3.2) Development of Catalogue for Radiometer Temperature Measurements Performed to Date.

Progress was made towards compilation of this catalogue. The estimated time
of publication of this report is sometime in March.

1.2 (Task 2.1.3.3) Study of Effects of Atmosphere Upon S193 Rad/Scat Measurements.

Same as 1.1 (above).

1.3 (Task 2.1.1.5) Ground Truth Collection.

9-track computer compatible tapes (NASA Product S061-1) have been
received. Effort is under way to decommutate these tapes to extract spatial position
of targets so that pertinent ground truth can be examined.

Footprints generated by the simulation program were plotted on 1:250,000
U.S. Maps. The decommutation of meteorological information on magnetic tape
has been initiated.

1.4 Data Decommutation and Analysis.

The programs for decommutating S193 data have finally been debugged.
Data generated by in-house processing of raw S193 Radiometer and Scatterometer
data is being examined. Since the exact location of a target point over the
ocean surface is not very critical to analysis, data for such passes is being processed.

2.0 REPORTS COMPLETED

There were no reports completed this month.

N74-20962

Unclas
00435

G3/13

CSCI 14B

(E74-10435) [MICROWAVE
RADIOMETER-SCATTEROMETER MEASUREMENTS]
Monthly Progress Report, 1-31 Jan. 1974
(Kansas Univ. Center for Research, Inc.)
2 p HC \$4.00

3.0 SPECIAL ANALYSES

It seems that a misunderstanding existed in NASA's interpretation of the preferences requested for S193 operation on this project. In a telephone conversation with Mr. Greg Barron of your office on November 28, 1973, the following priorities for SL4 operation of the S193 were indicated:

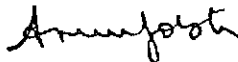
- Priority 1 - CTC Roll Offset 29.4°
- Priority 2 - CTC Roll Offset 15.6
- Priority 3 - CTC Roll Offset 40.1

The misunderstanding was cleared up by a telephone call and letter to your office.

4.0 DATA RECEIVED

We are still awaiting a formal list of passes, times and products to be expected on this project. Meanwhile, all possible data received from NASA is being scanned for possible use on this project.

Sincerely,



Arun Sobti
Project Engineer
Remote Sensing Laboratory

AS/rmm